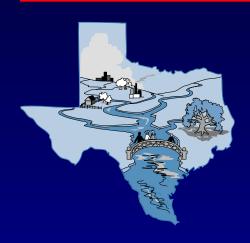
Atascosa River TMDL Project: Impairment Verification Results



Total Maximum Daily Load Program
Strategic Assessment Division
Texas Commission on Environmental Quality



Water Quality Standards

Use	Indicator	Criteria
High Aquatic Life	Dissolved Oxygen	5.0 mg\L Average
		3.0 mg\L Minimum



Water Quality Standards

Use	Indicator	Criteria
High Aquatic Life	Dissolved Oxygen	5.0 mg\L Average
		3.0 mg/L Minimum
Contact Recreation		394 col\100 mL
	Bacteria	Single sample
	(E. coli)	126 col\100mL
		Geometric Mean



Current Status of 303(d) Listing

2002 Water Quality Inventory and 303(d) List

Not supporting the aquatic life use due to depressed dissolved oxygen.

Instantaneous DO —— 24-hour DO

Not supporting the contact recreation use due to bacteria.

Fecal coliform ——— E. coli

Potential Outcomes

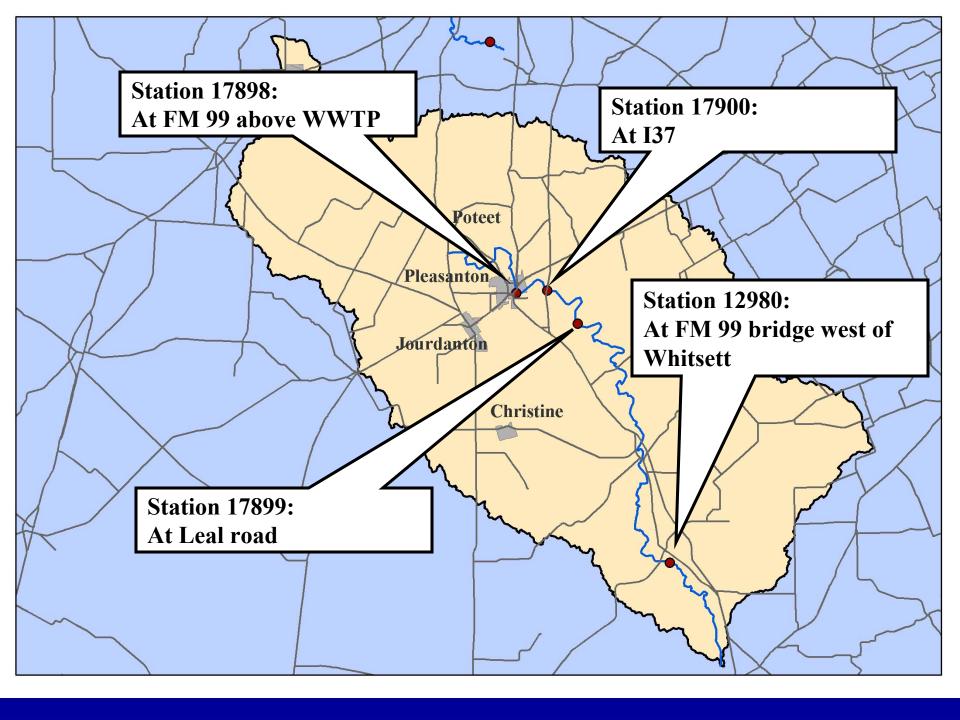
- 1. Conduct TMDL
- 2. Adjust Water Quality Standard (aquatic life use only)
- 3. Remove impairment from 303(d) List
- 4. Collect additional data

Monitoring Plan

3 Stations within the area of impairment (one station added)

Field and chemical parameters sampled at least ten times

Biological samples will be collected 3 times



Impairment Verification Monitoring

August 2002-August 2004

Field Parameters

Chemical Parameters

Biological Parameters

24-Hour Dissolved Oxygen
Temperature
Conductivity
pH
Flow

Impairment Verification Monitoring

August 2002-August 2004

Field Parameters

Chemical Parameters

Biological Parameters

Alkalinity
TSS
Sulfate
Chloride
Chlorophyll a
CBOD
Fecal coliform\E, coli

Impairment Verification Monitoring

August 2002-August 2004

Field Parameters

Chemical Parameters

Biological Parameters

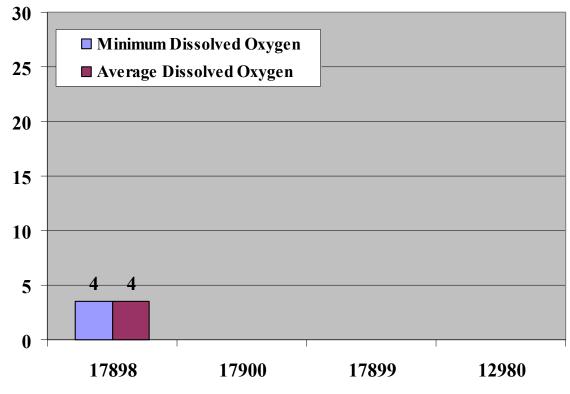
Nekton Assessments

Benthic Assessments

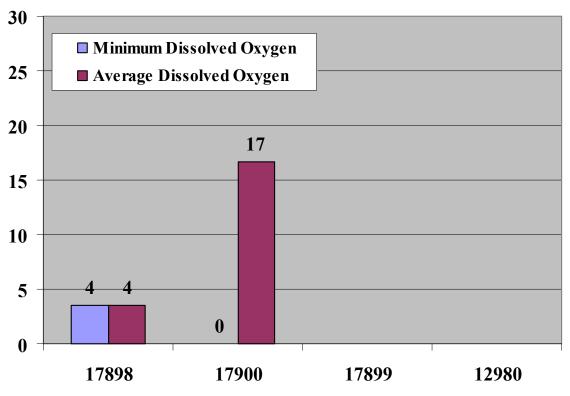
Habitat Assessments

Results

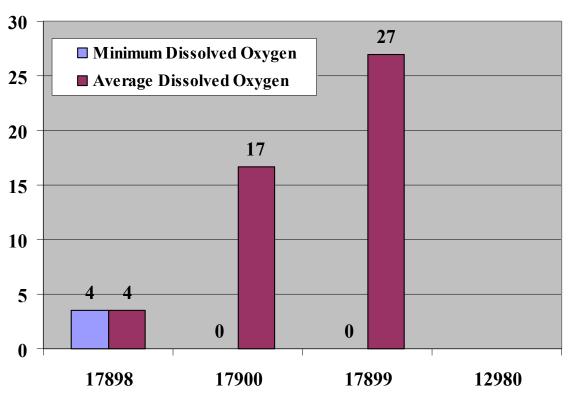




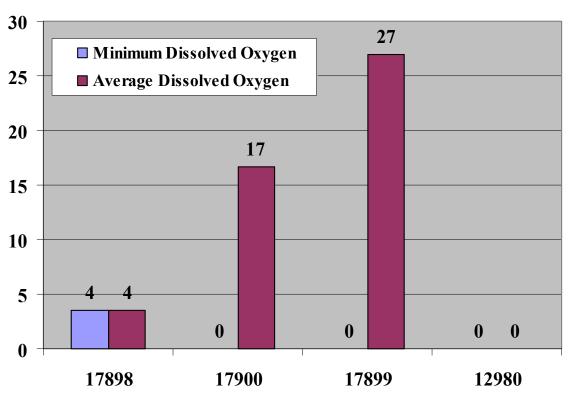




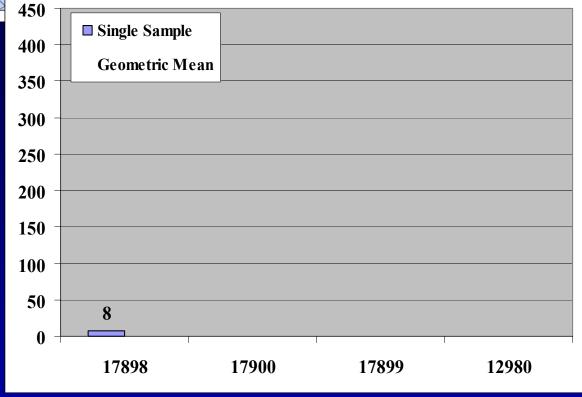




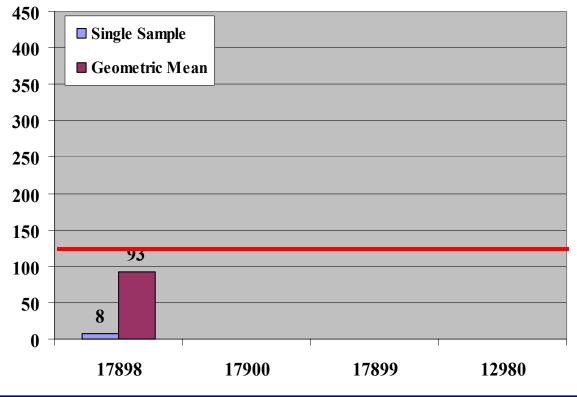




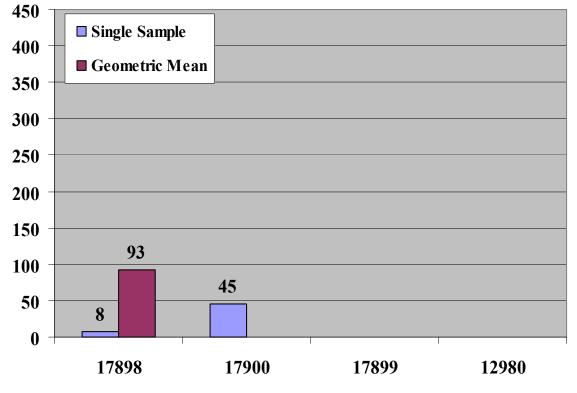




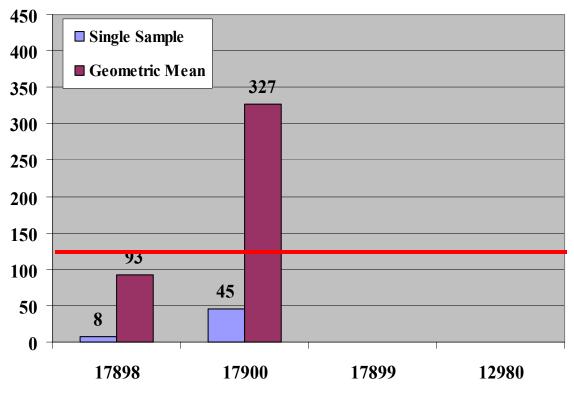




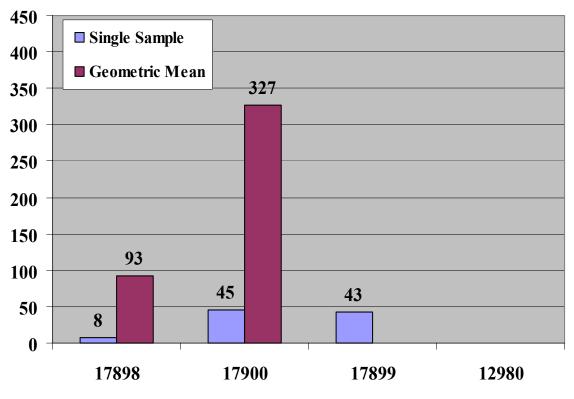




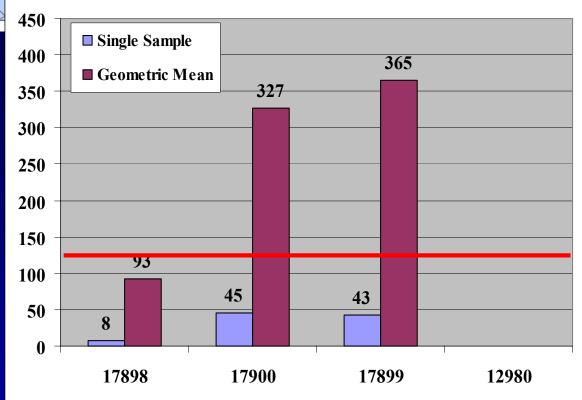




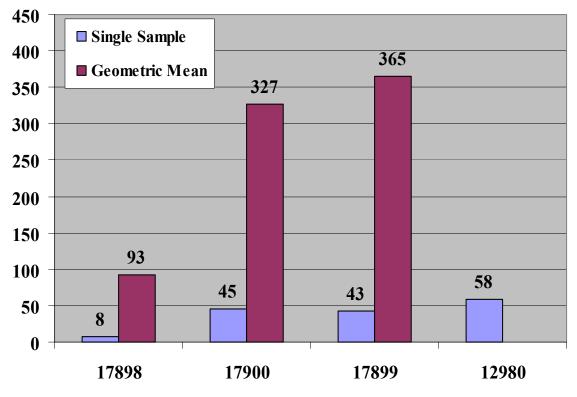




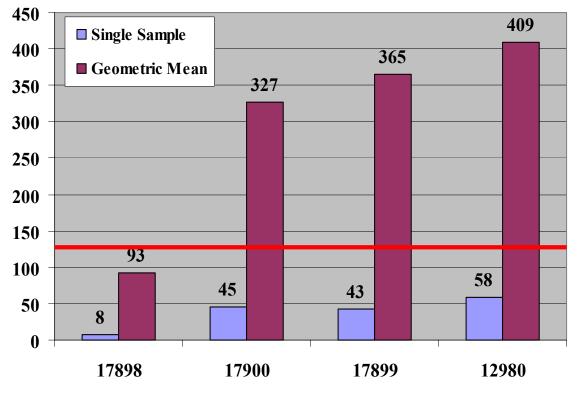


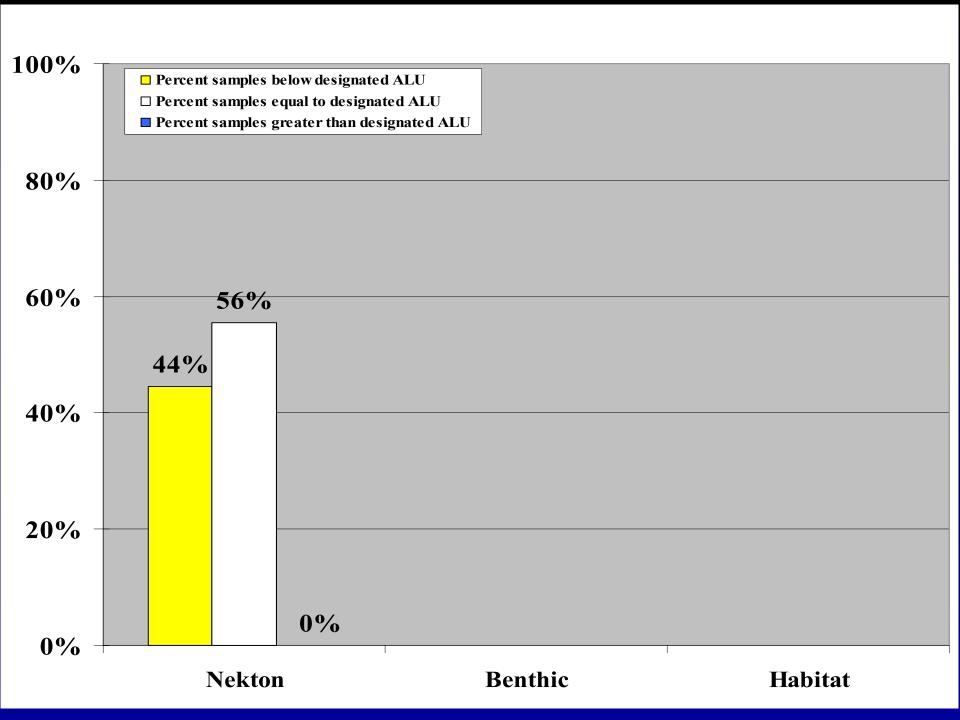


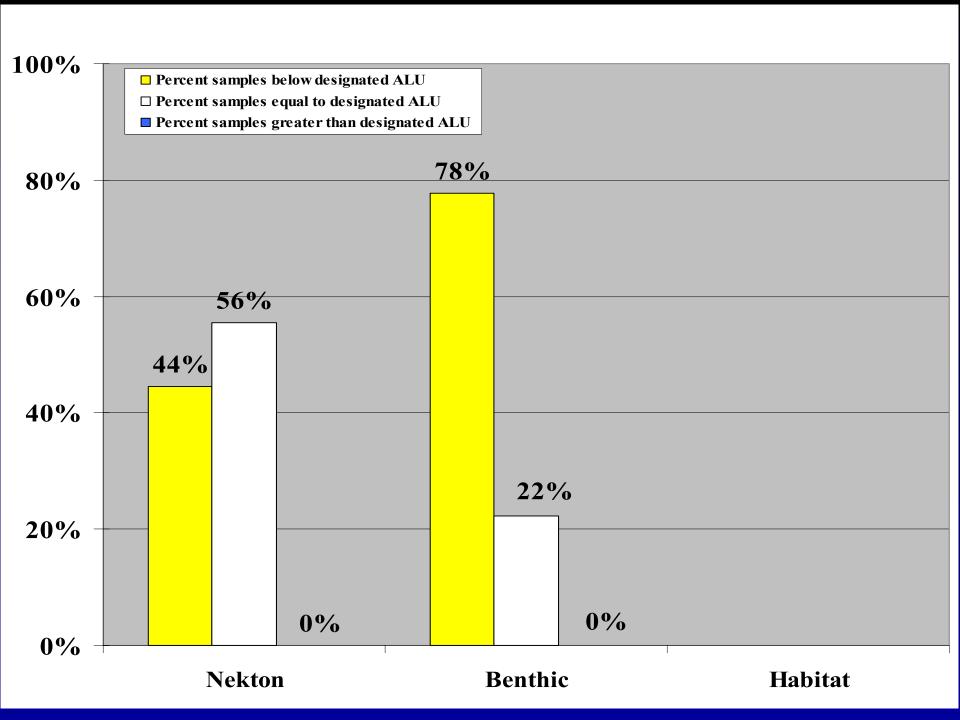


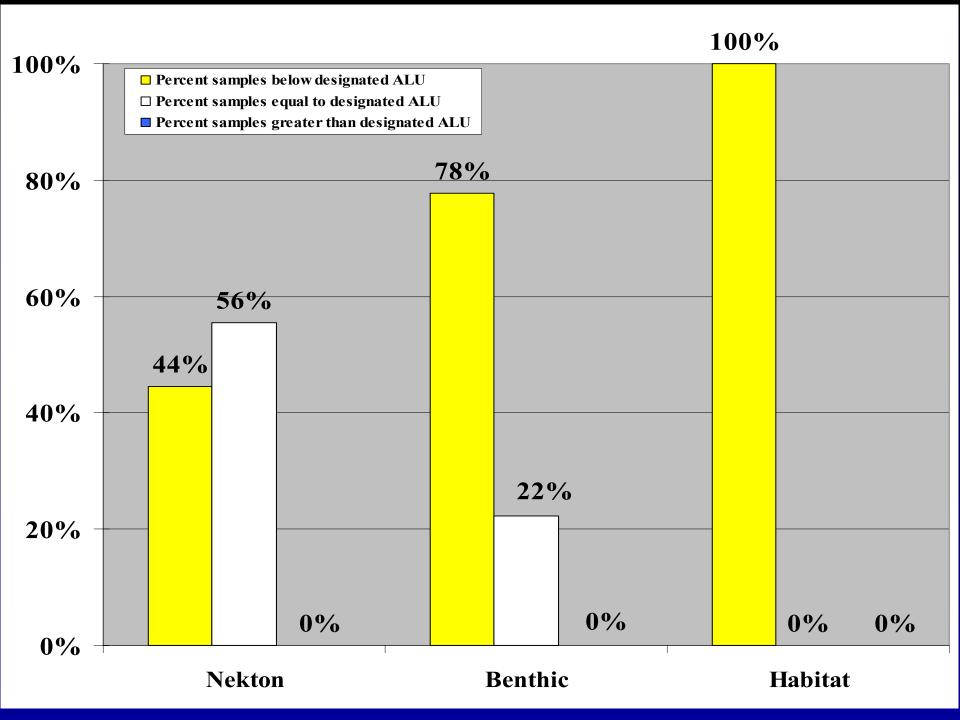












Aquatic Life Use Outcome

- 1. Conduct TMDL
- 2. Adjust Water Quality Standard (aquatic life use only)
- 3. Remove impairment from 303(d) List
- 4. Collect additional data

Recreational Use Outcome

- 1. Conduct TMDL
- 2. Adjust Water Quality Standard (aquatic life use only)
- 3. Remove impairment from 303(d) List
- 4. Collect additional data

